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SEARCH TRANSCRIPT
10/088,002
DON'T REMOVE

> s deliquescence
L1 3 DELIQUESENCE

=> d 1-3

L1 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS
AN 1983:621914 CAPLUS
DN 99:221914
TI A high-performance KD*P index-matching liquid
AU Kuang, Shexi; Huo, Changzhen; Hong, Shunkun; Xie, Zhongli
CS Anhui Inst. Opt. Fine Mech., Acad. Sin., Hefei, Peop. Rep. China
SO Zhongguo Jiguang (1983), 10(3), 191
CODEN: ZHJIDO; ISSN: 0258-7025
DT Journal
LA Chinese

L1 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS
AN 1980:452724 CAPLUS
DN 93:52724
TI Deliquescence properties and particle size change of hygroscopic aerosols
AU Tang, Ignatius N.
CS Dep. Energy Environ., Brookhaven Natl. Lab., Upton, NY, 11973, USA
SO Gener. Aerosols Facil. Exposure Exp., [Tech. Pap. Symp.] (1980), Meeting
Date 1979, 153-67. Editor(s): Willeke, Klaus. Publisher: Ann Arbor Sci.,
Ann Arbor, Mich.
CODEN: 42VIAR
DT Conference
LA English

L1 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
AN 1978:154729 CAPLUS
DN 88:154729
TI Improving the deliquescence of fructose
IN Kubota, Hiroshi
PA Kawazu Sangyo Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 53021113	A2	19780227	JP 1976-94701	19760809
	JP 54022962	B4	19790810		
PRAI	JP 1976-94701		19760809		

=> s potassium carbonate
465767 POTASSIUM
15 POTASSIUMS
465770 POTASSIUM
(POTASSIUM OR POTASSIUMS)
221236 CARBONATE
56450 CARBONATES
250352 CARBONATE
(CARBONATE OR CARBONATES)
L2 12597 POTASSIUM CARBONATE
(POTASSIUM(W) CARBONATE)

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=> s 12 and water-absorbing
    1980911 WATER
    218050 WATERS
    2031231 WATER
        (WATER OR WATERS)
    65386 ABSORBING
        1 ABSORBINGS
    65386 ABSORBING
        (ABSORBING OR ABSORBINGS)
    4514 WATER-ABSORBING
        (WATER(W) ABSORBING)
L3      6 L2 AND WATER-ABSORBING
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=> d 1-6
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L3  ANSWER 1 OF 6  CAPLUS  COPYRIGHT 2003 ACS
AN   2000:252088  CAPLUS
DN   132:266248
TI   Cellular polyurethane thermally insulating walls for refrigerators or
      freezers and their manufacture
IN   Yuasa, Akiko; Nakamoto, Hideo; Tsuda, Yoshiyuki
PA   Matsushita Refrigeration Co., Japan
SO   Jpn. Kokai Tokkyo Koho, 12 pp.
      CODEN: JKXXAF
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DT   Patent
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LA   Japanese
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FAN.CNT 1
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000109593	A2	20000418	JP 1998-283672	19981006
PRAI	JP 1998-283672		19981006		

```
L3  ANSWER 2 OF 6  CAPLUS  COPYRIGHT 2003 ACS
AN   2000:62561  CAPLUS
DN   132:126624
TI   Method and apparatus for applying of castable refractories for uniform
      structure and spalling resistance
IN   Matsuo, Kazuaki; Saito, Koji
PA   Toshiba Ceramics Co., Ltd., Japan
SO   Jpn. Kokai Tokkyo Koho, 6 pp.
      CODEN: JKXXAF
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DT   Patent
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LA   Japanese
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FAN.CNT 1
```

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000026169	A2	20000125	JP 1998-207076	19980708
PRAI	JP 1998-207076		19980708		

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L3  ANSWER 3 OF 6  CAPLUS  COPYRIGHT 2003 ACS
AN   1998:263277  CAPLUS
DN   128:325921
TI   Treating material for polychlorobiphenyl-containing oils
IN   Taguchi, Yoshio
PA   Taguchi, Hiromi, Japan
SO   U.S., 10 pp.
      CODEN: USXXAM
```

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DT   Patent
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LA   English
```

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FAN.CNT 1
```

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5744689	A	19980428	US 1996-738477	19961028

PRAI US 1996-738477

19961028

L3 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS

AN 1997:154679 CAPLUS

DN 126:161153

TI Agents and process for stabilizing waste soils

IN Ueda, Yasutaka; Myazaki, Hideo; Fujita, Hiroshi

PA Sumitomo Seika Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08333573	A2	19961217	JP 1995-163006	19950606
PRAI	JP 1995-163006		19950606		

L3 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS

AN 1993:519448 CAPLUS

DN 119:119448

TI Reactive dye-fixing agent compositions and process for fixing dyes on fibers

IN Yabushita, Shinichi; Nishinaka, Masatake

PA Sumitomo Chemical Co, Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05117982	A2	19930514	JP 1991-273798	19911022
PRAI	JP 1991-273798		19911022		
OS	MARPAT 119:119448				

L3 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS

AN 1990:35890 CAPLUS

DN 112:35890

TI Process of preparing acrylamides and methacrylamides

IN Ibi, Akira; Kitagawa, Masanori Mutsunoryo; Takeuchi, Koichi; Sagawa, Eiichi; Ohkawado, Etsuo

PA Mitsui Toatsu Chemicals, Inc., Japan

SO Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 321256	A2	19890621	EP 1988-311899	19881216
	EP 321256	A3	19901010		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	JP 01250371	A2	19891005	JP 1988-194535	19880805
	CA 1322750	A1	19931005	CA 1988-585026	19881205
	US 4978754	A	19901218	US 1988-282687	19881212
PRAI	JP 1987-317450		19871217		
	JP 1988-194535		19880805		
	JP 1987-199001		19870811		
OS	MARPAT 112:35890				

=> s hydrated potassium carbonate
54249 HYDRATED

1 HYDRATEDS
 54250 HYDRATED
 (HYDRATED OR HYDRATEDS)
 465767 POTASSIUM
 15 POTASSIUMS
 465770 POTASSIUM
 (POTASSIUM OR POTASSIUMS)
 221236 CARBONATE
 56450 CARBONATES
 250352 CARBONATE
 (CARBONATE OR CARBONATES)
 L4 4 HYDRATED POTASSIUM CARBONATE
 (HYDRATED (W) POTASSIUM (W) CARBONATE)

=> d 1-4

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS
 AN 1987:517861 CAPLUS
 DN 107:117861
 TI Dry method for preparing potassium bicarbonate
 IN Monteiro, Manuel Orestes Pereira
 PA Bicarbon Industrial e Comercial Ltda., Brazil
 SO Braz. Pedido PI, 5 pp.
 CODEN: BPXXDX
 DT Patent
 LA Portuguese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	BR 8505397	A	19870526	BR 1985-5397	19851018
PRAI	BR 1985-5397		19851018		

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS
 AN 1976:435199 CAPLUS
 DN 85:35199
 TI Hydrated potassium carbonate resistant to
 caking
 IN Jelinek, Jan; Fritsch, Jan
 PA Czech.
 SO Czech., 2 pp.
 CODEN: CZXXA9
 DT Patent
 LA Czech
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	CS 161510	B	19750610	CS 1973-4060	19730606
PRAI	CS 1973-4060		19730606		

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS
 AN 1967:111108 CAPLUS
 DN 66:111108
 TI Preparation of the double carbonate $K_2CO_3 \cdot 2KH \cdot CO_3 \cdot 1.5H_2O$ by reaction of
 hydrated potassium carbonate and potassium
 bicarbonate in the solid state
 AU Diament, Rene
 CS Centre Rech. Soc. Etudes Chim. Ind. Agr. S.E.C.P.I.A., Argenteuil, Fr.
 SO Comptes Rendus des Seances de l'Academie des Sciences, Serie C: Sciences
 Chimiques (1967), 264(6), 504-7
 CODEN: CHDCAQ; ISSN: 0567-6541
 DT Journal
 LA French

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS

AN 1958:87191 CAPLUS
DN 52:87191
OREF 52:15330d-e
TI The influence of temperature and drying time in the determination of
moisture in **hydrated potassium carbonate**
AU Mach, O.
CS Severoceske sklarny, n.p., Svor, Czech.
SO Silikaty (1957), 1, 293-6
DT Journal
LA Unavailable

=> d abs 2-4

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS
AB Tech. K₂CO₃ was crystd. from 2 l. of a concd. aq. soln. contg. 65.25%
K₂CO₃ and 3.85% KOH in the presence of 0.4 kg octadecylamine which coated
the crystals with a fine hydrophobic film. The treatment did not
interfere with use of the product in the prodn. of glass.

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS
AB A mixt. of KHCO₃ and K₂CO₃.1.5H₂O, in stoichiometric proportions, is
finely ground, compressed at 3 kilobars, and heated at 60.degree. for 48
hrs. to give the title compd. The final product can contain a small amt.
(.ltoreq.2.7%) of each of the initial components.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS
AB A sample of K₂CO₃ contg. 20.23 wt. % of bound and free water was dried at
120.degree., 150.degree., and 180.degree.. At temps. above 180.degree.
all the water was lost, whereas at 120.degree. and 150.degree. a const.
sample wt. was obtained with 18.09 and 19.20% loss of sample wt. Equil.
was approached by exponential decay with rate consts. of 0.25, 1.11, and
3.188/hr. at 120, 150, and 180.degree., resp.

=>
=> s potash and hygroscopic
9827 POTASH
8 POTASHES
9831 POTASH
(POTASH OR POTASHES)
17003 HYGROSCOPIC
2 HYGROSCOPICS
17003 HYGROSCOPIC
(HYGROSCOPIC OR HYGROSCOPICS)
L5 41 POTASH AND HYGROSCOPIC

=> s 15 and amount
28971 AMOUNT
26807 AMOUNTS
54753 AMOUNT
(AMOUNT OR AMOUNTS)
787650 AMT
497535 AMTS
1209415 AMT
(AMT OR AMTS)
1245947 AMOUNT
(AMOUNT OR AMT)
L6 12 L5 AND AMOUNT

=> d 1-12

L6 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1996:357458 CAPLUS

DN 125:63395
 TI Mount St. Augustine volcano fumarole wall rock alteration: mineralogy, zoning, composition and numerical models of its formation process
 AU Getahun, Aberra; Reed, Mark H.; Symonds, Robert
 CS Department of Geological Sciences, University of Oregon, Eugene, USA
 SO Journal of Volcanology and Geothermal Research (1996), 71(2-4), 73-107
 CODEN: JVGRDQ; ISSN: 0377-0273
 PB Elsevier
 DT Journal
 LA English

L6 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2003 ACS
 AN 1955:73372 CAPLUS
 DN 49:73372
 OREF 49:13881c-i,13882a-i,13883a-c
 TI Oxidation products of diisobutylene. II. Isomerization of 1,2-epoxy-2,4,4-trimethylpentane, and some products derived from 2,4,4-trimethylpentanal
 AU Gasson, E. J.; Graham, A. R.; Millidge, A. F.; Robson, I. K. M.; Webster, W.; Wild, A. M.; Young, D. P.
 CS Distillers Co. Ltd., Epsom, UK
 SO J. Chem. Soc. (1954) 2170-9
 DT Journal
 LA Unavailable

L6 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS
 AN 1953:58498 CAPLUS
 DN 47:58498
 OREF 47:9905i,9906a-i,9907a-i,9908a-b
 TI Acrylonitrile as a starting material for synthesis of amino nitriles and polyamines
 AU Kost, A. N.
 SO Uchenye Zapiski Moskov. Gosudarst. Univ. im. M. V. Lomonosova (1950), (No. 131), 39-97
 DT Journal
 LA Unavailable

L6 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2003 ACS
 AN 1945:19739 CAPLUS
 DN 39:19739
 OREF 39:3107h-i,3108a-b
 TI Moisture relations of mixed fertilizers: influence of nitrogenous materials
 AU Hardesty, John O.; Yee, J. Y.; Love, Katharine S.
 SO Ind. Eng. Chem. (1945), 37, 567-73
 DT Journal
 LA Unavailable

L6 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS
 AN 1941:27575 CAPLUS
 DN 35:27575
 OREF 35:4361b-i,4362a-d
 TI Comparative hydrogenation of aliphatic and alicyclic azines. I. Azines of hexahydrobenzaldehyde and enanthaldehyde
 AU Ugryumov, P. G.
 SO J. Gen. Chem. (U. S. S. R.) (1940), 10(No. 22), 1985-94
 DT Journal
 LA Unavailable

L6 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2003 ACS
 AN 1932:52291 CAPLUS
 DN 26:52291
 OREF 26:5388g-h
 TI Potash from polyhalite by reduction process. I. Preliminary

experiments with hydrogen
AU Fraas, F.; Partridge, Everett P.
SO Ind. Eng. Chem. (1932), 24, 1028-32
DT Journal
LA Unavailable

L6 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1928:35437 CAPLUS
DN 22:35437
OREF 22:4199b-c
TI Fertilizer containing **potash** and nitrogen
PA Norsk Hydro-Elektrisk Kvaelstofaktieselskab
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	NO 45058		19280416	NO	

L6 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1922:23693 CAPLUS
DN 16:23693
OREF 16:4030g-i,4031a-d
TI The utilization of selenium
AU Sugie, S.
SO J. Japn. Ceram. Assoc. (1921), 341;342;343, 152-5;193-95;226-30
DT Journal
LA Unavailable

L6 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1921:15303 CAPLUS
DN 15:15303
OREF 15:2877e-i,2878a-i,2879a-h
TI Synthesis of homomorpholine and of benzohomomorpholine
AU v. Braun, Julius; Braunsdorf, Otto
SO Landw. Hochschule Berlin Ber. (1921), 54B, 685-703
DT Journal
LA Unavailable

L6 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1915:14206 CAPLUS
DN 9:14206
OREF 9:2294a-c
TI The waste liquor question of the **potash** industry
AU Berge
CS Bunzlau
SO Z. angew. Chem. (1914), 27(I), 660-2
DT Journal
LA Unavailable

L6 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1915:6873 CAPLUS
DN 9:6873
OREF 9:1049i,1050a-i,1051a
TI d- and l-Glyceric aldehyde
AU Wohl, A.; Momber, Fr.
CS Danzig
SO Ber. (1914), 47, 3346-58
DT Journal
LA Unavailable

L6 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN 1913:20914 CAPLUS
DN 7:20914

OREF 7:3012b-c

TI Permanently fit **hygroscopic** plastic mass for modelling.

IN von Zakrzewski, A. E.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 258681		19120704	DE	

=> s 15 not 16

L7 29 L5 NOT L6

=> d 1-29

L7 ANSWER 1 OF 29 CAPLUS COPYRIGHT 2003 ACS

AN 1985:580346 CAPLUS

DN 103:180346

TI Treating **potash** with anticaking agent

IN Goldsmith, Elmar L.

PA PPG Industries, Inc., Can.

SO U.S., 6 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4536418	A	19850820	US 1982-370767	19820422
	CA 1211318	A1	19860916	CA 1983-423960	19830318
PRAI	US 1982-370767		19820422		

L7 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2003 ACS

AN 1980:25066 CAPLUS

DN 92:25066

TI Improvement of the physicomechanical properties of **potash**.

Communication I. Decreasing the hygroscopicity of **potash**

AU Dvoinov, A. N.; Krasheninnikov, S. A.; Shokin, I. N.

CS Mosk. Khim.-Tekhnol. Inst., Moscow, USSR

SO Deposited Doc. (1978), VINITI 2078-78, 13 pp. Avail.: VINITI

DT Report

LA Russian

L7 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2003 ACS

AN 1974:523697 CAPLUS

DN 81:123697

TI Phenomenon of the caking of **potash**

AU Dvoinov, A. N.; Shokin, I. N.; Krasheninnikov, S. A.

CS USSR

SO Trudy Instituta - Moskovskii Khimiko-Tekhnologicheskii Institut imeni D. I. Mendeleeva (1973), 73, 21-3

CODEN: TMKIAT; ISSN: 0320-3220

DT Journal

LA Russian

L7 ANSWER 4 OF 29 CAPLUS COPYRIGHT 2003 ACS

AN 1964:496105 CAPLUS

DN 61:96105

OREF 61:16734g-h,16735a-b

TI Methods to utilize **potash** in agriculture

AU Strebkov, I. M.

SO Khim. v Sel'sk. Khoz. (1964), (4), 16-20

DT Journal

LA Unavailable

L7 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2003 ACS

AN 1963:413692 CAPLUS

DN 59:13692

OREF 59:2409g-h,2410a

TI The heat and material exchange between **hygroscopic** packing material and mine damp

AU Angeneyndt, Jan Derk

CS Tech. Univ., Berlin

SO Bergbauwissenschaften (1962), 9, 521-34

DT Journal

LA German

L7 ANSWER 6 OF 29 CAPLUS COPYRIGHT 2003 ACS

AN 1957:44682 CAPLUS

DN 51:44682

OREF 51:8335b-d

TI Methodology of determining unstable compounds directly at water-source in regional hydrogeologic investigations

AU Sokolov, I. Yu.; Kuznetsova, Z. I.

CS All-Union Sci. Research Inst. Hydrogeol. and Eng. Geol., Moscow

SO Gidrokhim. Materialy (1955), 24, 15-18

DT Journal

LA Unavailable

L7 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2003 ACS

AN 1953:51385 CAPLUS

DN 47:51385

OREF 47:8679f-h

TI Synthesis and study of the 3-diethylaminopropyl ether of 2-methoxy-6-allylphenol

AU Khaletskii, A. M.; Sokolova, T. I.

CS Leningrad Chem.-Pharm. Inst.

SO Zhur. Obshchei Khim. (1952), 22, 1648-50

DT Journal

LA Unavailable

L7 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2003 ACS

AN 1948:23876 CAPLUS

DN 42:23876

OREF 42:5147c-i,5148a

TI Role of **potash** in growth and nutrition of Maryland tobacco

AU Bowling, J. D.; Brown, D. E.

CS U.S. Dept. Agr., Washington, DC

SO U.S. Dept. Agr., Tech. Bull. (1947), No. 933, 28 pp.

DT Journal

LA Unavailable

L7 ANSWER 9 OF 29 CAPLUS COPYRIGHT 2003 ACS

AN 1944:10668 CAPLUS

DN 38:10668

OREF 38:1600e-h

TI Use of NH_4NO_3 in mixed fertilizers

AU Hardesty, J. O.; Yee, J. Y.; Gaddy, V. L.; Parker, F. W.

SO Am. Fertilizer (1943), 99(No. 8;No. 9), 5-7,20-2,24;10-11

DT Journal

LA Unavailable

L7 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2003 ACS

AN 1944:10667 CAPLUS

DN 38:10667

OREF 38:1600e-h

TI Use of NH_4NO_3 in mixed fertilizers

AU Hardesty, J. O.; Yee, J. Y.; Gaddy, V. L.; Parker, F. W.
SO Com. Fertilizer (1943), 67(No. 6), 32-8
DT Journal
LA Unavailable

L7 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1940:46158 CAPLUS
DN 34:46158
OREF 34:7069e-g
TI The formation of salt solutions in **potash** mines
AU Kier, Karl
SO Chimie & industrie (1940), 43, 823
DT Journal
LA Unavailable

L7 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1940:46157 CAPLUS
DN 34:46157
OREF 34:7069e-g
TI The formation of salt solutions in **potash** mines
AU Kier, Karl
SO Kali (1939), 33, 141-4,165-7
DT Journal
LA Unavailable

L7 ANSWER 13 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1940:24161 CAPLUS
DN 34:24161
OREF 34:3703f-i,3704a-d
TI Syntheses of derivatives of p-aminobenzenesulfonamide
AU Drozdov, N. S.; Stavrovskaya, V. I.
SO J. Gen. Chem. (U. S. S. R.) (1939), 9, 1642-6
DT Journal
LA Unavailable

L7 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1928:10887 CAPLUS
DN 22:10887
OREF 22:1291g-i,1292a-c
TI Boric acids and alkali borates. III. The solid alkali mono- and poly-borates
AU Menzel, Heinrich
SO Z. anorg. allgem. Chem. (1927), 166, 63-98
DT Journal
LA Unavailable

L7 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1925:16256 CAPLUS
DN 19:16256
OREF 19:2115c-d
TI The use of calcined and of hydrated **potash** for lead crystal, and for zinc-barium-lead crystal glass
AU Japhe, D.
SO J. Soc. Glass Technology (1924), 8, 241
DT Journal
LA Unavailable

L7 ANSWER 16 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1925:16255 CAPLUS
DN 19:16255
OREF 19:2115c-d
TI The use of calcined and of hydrated **potash** for lead crystal, and for zinc-barium-lead crystal glass
AU Japhe, D.

SO Sprechsaal (1924), 57, 565
DT Journal
LA Unavailable

L7 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1923:23936 CAPLUS
DN 17:23936
OREF 17:3620b-c
TI Soaps
IN Legradi, T.
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 194662		19221205	GB	

L7 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1923:17858 CAPLUS
DN 17:17858
OREF 17:2791g-h
TI Solid **potash** soaps
AU Leimdorfer, J.
SO Seifensieder Ztg. (1923), 50, 193-4
DT Journal
LA Unavailable

L7 ANSWER 19 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1922:5843 CAPLUS
DN 16:5843
OREF 16:1015f
TI The use of soda and **potash** salts in dyeing
AU Anon.
SO Industrie chimique (1921), 8, 370
DT Journal
LA Unavailable

L7 ANSWER 20 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1922:5842 CAPLUS
DN 16:5842
OREF 16:1015f
TI The use of soda and **potash** salts in dyeing
AU Anon.
SO L'Avenir textile (1921) p. 415
DT Journal
LA Unavailable

L7 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1921:11548 CAPLUS
DN 15:11548
OREF 15:2145b-f
TI Composition of fertilizer prepared by treating lime with end-liquors from **potash** works
AU Gorbing, J.
SO Z. offentl. Chem. (1920), 26, 205-13
DT Journal
LA Unavailable

L7 ANSWER 22 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1917:5864 CAPLUS
DN 11:5864
OREF 11:1243d-e
TI Marine kainite
CS U. S. Com. Rep.

SO J. Soc. Chem. Ind. (1916), 35, 1074
DT Journal
LA Unavailable

L7 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1916:7240 CAPLUS
DN 10:7240
OREF 10:1393c-e
TI Determination of **potash** in fertilizers
AU Pilz, Ferdinand
SO Z. landw. Versw. (1915), 18, 77-108
DT Journal
LA Unavailable

L7 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1912:4128 CAPLUS
DN 6:4128
OREF 6:671b-e
TI Production of Hydrogen in the Dry Way
AU Sander, A.
SO Chem. Ztg. (1912), 35, 1273-4
DT Journal
LA Unavailable

L7 ANSWER 25 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1910:13077 CAPLUS
DN 4:13077
OREF 4:2346g-h
TI Experiments with New Nitrogenous Manures
AU Hendrick, J.
SO Aberdeen Col. Agr., Bull. (1910), 13,
DT Journal
LA Unavailable

L7 ANSWER 26 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1909:6732 CAPLUS
DN 3:6732
OREF 3:1263f-g
TI Rinneite, a New Ferrous Chloride Mineral
AU Boeke, H. E.
CS Konigsberg
SO Centr. Min. (1909) 72-6
DT Journal
LA Unavailable

L7 ANSWER 27 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1908:2412 CAPLUS
DN 2:2412
OREF 2:587d-i,588a
TI Japanese Paper
AU Setlik, B.
CS Technol. Museum, Prague
SO Papier-Ztg. (1908), Volume Date Aug 1908-Nov 1908, 32,
2854-5,3198-200,3738-9,4018-20
DT Journal
LA Unavailable

L7 ANSWER 28 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1908:2198 CAPLUS
DN 2:2198
OREF 2:537e-i,538a-i,539a-b
TI On Phenopyrylium and Higher Homologous and Isologous Pyrylium Rings
AU Decker, Herman; von Ffllenberg, Theodor
SO Ann. (1908), 356, 281-342

DT Journal
LA Unavailable

L7 ANSWER 29 OF 29 CAPLUS COPYRIGHT 2003 ACS
AN 1907:7745 CAPLUS
DN 1:7745
OREF 1:1845g-i,1846a-e
TI Ester-acids of Thiocarbonic Acids and Aliphatic Oxyacids
AU Holmberg, B.
CS Lund
SO J. pr. Chem. (1907), 75, 169-87
DT Journal
LA Unavailable

=> d abs 3

L7 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2003 ACS
AB During absorption of moisture by calcined **potash**, the change of interplanar distances corresponds to the formation of the crystal hydrate $K_2CO_3 \cdot 1.5H_2O$. The x-ray diagram of **potash** samples kept in air revealed diffraction lines indicating the formation of $KHCO_3$, owing to absorption of CO_2 and H_2O . When moisture is absorbed by calcined **potash**, the latter is quickly transformed into the crystal hydrate, water is bound chem., and the product preserves its free-flowing property and does not cake. This phenomenon continues until all the calcined **potash** is converted to $K_2CO_3 \cdot 1.5H_2O$. The water further absorbed is not bound and remains in the **potash** as **hygroscopic** water. From then on, a variation in temp. and moisture of the surrounding air results in a redn. of the free-flowing properties of **potash** and it begins to cake.

=> d abs 2

L7 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2003 ACS
AB The hygroscopicity of calcined K_2CO_3 and $K_2CO_3 \cdot 1.5H_2O$ was suppressed by spraying with H_3PO_4 owing to the formation of a low-**hygroscopic** film of KH_2PO_4 . The method was applied to prevent caking of **potash**, mainly used as a fertilizer, during long-term storage.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	95.84	96.05
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.26	-3.26

FILE 'REGISTRY' ENTERED AT 14:46:51 ON 08 JAN 2003
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 JAN 2003 HIGHEST RN 478336-86-6
DICTIONARY FILE UPDATES: 7 JAN 2003 HIGHEST RN 478336-86-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STN Note 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

```
=> s calcined potash/cn
L8          0 CALCINED POTASH/CN
```

```
=> s anhydrous potash/cn
L9          0 ANHYDROUS POTASH/CN
```

```
=> s potash
L10         10 POTASH
```

```
=> d 1-10
```

L10 ANSWER 1 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 308074-08-0 REGISTRY *

* Use of this CAS Registry Number alone as a search term in other STN files may result in incomplete search results. For additional information, enter HELP RN* at an online arrow prompt (=>).

CN Feldspar-group minerals, potassium (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Potassium feldspars

OTHER NAMES:

CN Feldspar, potassic

CN Feldspar, potassium

CN Feldspars, potassium

CN Incusa

CN Norfloat K

CN **Potash feldspar**

CN Potassic feldspar

CN Potassium feldspar

CN Potassium feldspar-group minerals

MF Unspecified

CI MAN, CTS

SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L10 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 308074-07-9 REGISTRY *

* Use of this CAS Registry Number alone as a search term in other STN files may result in incomplete search results. For additional information, enter HELP RN* at an online arrow prompt (=>).

CN Potassium ores (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN **Potash deposits**

OTHER NAMES:

CN **Potash**

CN Potassium deposits

MF Unspecified

CI MAN, CTS

SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

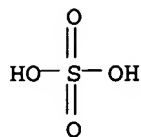
L10 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 12136-45-7 REGISTRY
CN Potassium oxide (K2O) (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Dipotassium monoxide
CN Dipotassium oxide
CN **Potash**
CN Potassium oxide
DR 1343-95-9, 37382-43-7
MF K2 O
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN,
DETERM*, DIOGENES, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,
ENCOMPPAT2, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NIOSHTIC,
PDLCOM*, PIRA, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

K-O-K

12387 REFERENCES IN FILE CA (1962 TO DATE)
68 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
12397 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L10 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 10141-00-1 REGISTRY
CN Sulfuric acid, chromium(3+) potassium salt (2:1:1) (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Chrome alum
CN **Chrome potash alum**
CN Chromic potassium sulfate
CN Chromium potassium alum
CN Chromium potassium disulfate
CN Chromium potassium sulfate
CN Chromium potassium sulfate (CrK(SO4)2)
CN Potassium chromium alum
CN Potassium chromium disulfate(kcr(so4)2)
CN Potassium chromium sulfate (KCr(SO4)2)
DR 14766-82-6, 81827-72-7, 81827-73-8
MF Cr . 2 H2 O4 S . K
CI COM
LC STN Files: AGRICOLA, AQUIRE, BIOSIS, CA, CANCERLIT, CAOLD, CAPLUS,
CASREACT, CEN, CHEMCATS, CHEMLIST, CIN, CSCHM, DETHERM*, GMELIN*,
IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, NIOSHTIC, PDLCOM*, PIRA, PROMT,
RTECS*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (7664-93-9)

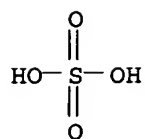


1/2 Cr(III)

● 1/2 K

350 REFERENCES IN FILE CA (1962 TO DATE)
 3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 351 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L10 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2003 ACS
 RN 10043-67-1 REGISTRY
 CN Sulfuric acid, aluminum potassium salt (2:1:1) (8CI, 9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Aluminum potassium sulfate (AlK(SO4)2) (6CI)
 OTHER NAMES:
 CN Alum
 CN Alum potassium
 CN Aluminum potassium alum
 CN Aluminum potassium disulfate
 CN Aluminum potassium sulfate
 CN Aluminum potassium sulfate (KAl(SO4)2)
 CN Aluminum potassium sulfate alum
 CN Burnt alum
 CN Burnt potassium alum
 CN Dialuminum dipotassium sulfate
 CN Exsiccated alum
 CN Potash alum
 CN Potassium alum
 CN Potassium aluminum alum
 CN Potassium aluminum sulfate
 CN Potassium aluminum sulfate (1:1:2)
 CN Tai-Ace K 150
 CN Tai-Ace K 20
 DR 131315-49-6
 MF Al . 2 H2 O4 S . K
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST,
 CIN, CSCHM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, GMELIN*,
 HSDB*, IFICDB, IFIPAT, IFIUDB, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA,
 PROMT, RTECS*, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 CRN (7664-93-9)



1/2 Al

1/2 K

1763 REFERENCES IN FILE CA (1962 TO DATE)
 10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1765 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L10 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2003 ACS
 RN 7447-40-7 REGISTRY
 CN Potassium chloride (KCl) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Acronitol
 CN Addi-K
 CN Apo-K
 CN Celeka
 CN Cena-K
 CN Chloropotassuril
 CN Chlorvescent
 CN Clor-K-Zaf
 CN Diffu-K
 CN Durekal
 CN Durules
 CN Durules-K
 CN Enpott
 CN Enseal
 CN K 10
 CN K-Care
 CN K-Contin
 CN K-Dur
 CN K-Lease
 CN K-Lor
 CN K-Lyte Cl
 CN K-Norm
 CN K-SR
 CN K-Tab
 CN Kadalex
 CN Kaleorid
 CN Kaliduron
 CN Kaliglutol
 CN Kalilente
 CN Kalinor-Retard P
 CN Kalinorm
 CN Kalinorm Depottab
 CN Kaliolite
 CN Kalipor
 CN Kalipoz
 CN Kalitabs
 CN Kalitrans Retard
 CN Kalium

CN Kalium Duriles
CN Kalium Retard
CN Kalium-Durettes
CN Kalium-R
CN Kaochlor
CN Kaon-Cl
CN Kay-Cee-L
CN Kay-Ciel
CN KCL Retard
CN Keylyte
CN Klor-Con
CN Klorvess
CN **Muriate of potash**

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

DR 12599-00-7, 126415-35-8, 59217-68-4, 79103-76-7

MF Cl K

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM*,
DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,
ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,
MSDS-OHS, NIOSHTIC, PDLCOM*, PHAR, PHARMASEARCH, PIRA, PROMT, RTECS*,
TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

Cl-K

52168 REFERENCES IN FILE CA (1962 TO DATE)

531 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

52206 REFERENCES IN FILE CAPLUS (1962 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L10 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 6381-79-9 REGISTRY

CN Carbonic acid, dipotassium salt, hydrate (2:3) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Carbonic acid, dipotassium salt, sesquihydrate (8CI)

OTHER NAMES:

CN Dipotassium carbonate sesquihydrate

CN **Potash sesquihydrate**

CN Potassium carbonate (K₂CO₃) sesquihydrate

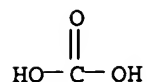
CN Potassium carbonate 1.5-hydrate

CN Potassium carbonate sesquihydrate

MF C H₂ O₃ . 3/2 H₂ O . 2 K

LC STN Files: CA, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CSCHM,
DETERM*, GMELIN*, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, USPATFULL
(*File contains numerically searchable property data)

CRN (463-79-6)



2 K

3/2 H₂O

36 REFERENCES IN FILE CA (1962 TO DATE)
36 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L10 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 1312-76-1 REGISTRY

CN Silicic acid, potassium salt (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2K

CN 2K (salt)

CN Betolin EP 219

CN Betolin P 35

CN Crystal K 78

CN Inobond K 4009

CN K 120

CN K 120 (silicate)

CN K 4009

CN K 53

CN K 53 (silicate)

CN K 78

CN Kasil

CN Kasil 1

CN Kasil 2130

CN Kasil 2236

CN Kasil 33

CN Kasil 6

CN Kasil 88

CN Kasil SS

CN Kasolv 16

CN Kasolv SS

CN Ohkaseal A

CN Potassium polysilicate

CN Potassium silicate

CN Potassium Silicate 2K

CN Potassium Silicate A

CN Potassium water glass

CN PS 7

CN PS 7 (silicate)

CN Pyramid 120

CN Pyramid K 66

CN SEK

CN Silchem K 1420

CN Soluble potash glass

CN Soluble potash water glass

CN Trolit AOS

DR 12698-85-0, 11116-04-4

MF Unspecified

CI COM, MAN

LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB,
CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, EMBASE, ENCOMPLIT, ENCOMPLIT2,

ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, MRCK*, MSDS-OHS,
NIOSHTIC, PDLCOM*, PIRA, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

2910 REFERENCES IN FILE CA (1962 TO DATE)
31 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2915 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L10 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 1310-58-3 REGISTRY

CN Potassium hydroxide (K(OH)) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Potassium hydroxide (8CI)

OTHER NAMES:

CN **Caustic potash**

CN Cyantek CC 723

CN **Potash**

DR 71769-53-4, 29857-72-5

MF H K O

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM*, DIOGENES,
DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USAN,
USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

K-OH

25100 REFERENCES IN FILE CA (1962 TO DATE)
180 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
25148 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L10 ANSWER 10 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 584-08-7 REGISTRY

CN Carbonic acid, dipotassium salt (8CI, 9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Potassium carbonate (K₂CO₃) (6CI, 7CI)

OTHER NAMES:

CN Carbonic acid potassium salt (1:2)

CN Dipotassium carbonate

CN Pearl ash

CN **Potash**

CN Potassium carbonate

CN Potassium carbonate (2:1)

CN Potassium carbonate (K₂(CO₃))

AR 17353-70-7

DR 30095-94-4

MF C H₂ O₃ . 2 K

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM*,
DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,

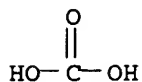
ENCOMPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*,
MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER,
TULSA, USAN, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

CRN (463-79-6)



2 K

13972 REFERENCES IN FILE CA (1962 TO DATE)
128 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
13994 REFERENCES IN FILE CAPLUS (1962 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.26

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FILE COVERS 1907 - 8 Jan 2003 VOL 138 ISS 2
FILE LAST UPDATED: 7 Jan 2003 (20030107/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s anhydrous and calcined

13632 ANHYDROUS
 88913 ANHYD
 5 ANHYDS
 88916 ANHYD
 (ANHYD OR ANHYDS)
 97375 ANHYDROUS
 (ANHYDROUS OR ANHYD)
 45555 CALCINED
 L11 706 ANHYDROUS AND CALCINED

=> s l11 and (potassium carbonate or potash)

465767 POTASSIUM
 15 POTASSIUMS
 465770 POTASSIUM
 (POTASSIUM OR POTASSIUMS)
 221236 CARBONATE
 56450 CARBONATES
 250352 CARBONATE
 (CARBONATE OR CARBONATES)
 12597 POTASSIUM CARBONATE
 (POTASSIUM(W) CARBONATE)
 9827 POTASH
 8 POTASHES
 9831 POTASH
 (POTASH OR POTASHES)

L12 17 L11 AND (POTASSIUM CARBONATE OR POTASH)

=> d 1-17

L12 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 2002:606584 CAPLUS

DN 137:126684

TI Optical readable paper for OCR and OMR applications and its manufacture

IN Yuasa, Masanobu; Yano, Tomio; Eguchi, Minoru

PA Oji Paper Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002227094	A2	20020814	JP 2001-352874	20011119
PRAI	JP 2000-362633	A	20001129		

L12 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1998:66490 CAPLUS

DN 128:77373

TI Production of synthesis gas from hydrocarbon feedstock by reforming using
 Feitknecht catalysts

IN Scott, Stephen Bruce John

PA British Gas Plc, UK

SO Brit. UK Pat. Appl., 36 pp.

CODEN: BAXXDU

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2311790	A1	19971008	GB 1996-7231	19960404
	CA 2250893	AA	19971016	CA 1997-2250893	19970401
	WO 9737930	A1	19971016	WO 1997-GB900	19970401

W: AU, CA, JP, KZ, RU, TT, US

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

AU 9722991	A1	19971029	AU 1997-22991	19970401
AU 713494	B2	19991202		
EP 891295	A1	19990120	EP 1997-915555	19970401
R: AT, BE, DE, DK, ES, FR, GB, GR, IT, NL, SE, IE				
JP 2000508286	T2	20000704	JP 1997-535945	19970401
RU 2161120	C2	20001227	RU 1998-119957	19970401
ZA 9702890	A	19980416	ZA 1997-2890	19970404
PRAI GB 1996-7231	A	19960404		
WO 1997-GB900	W	19970401		

L12 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1996:269700 CAPLUS

DN 124:343541

TI Mechanochemical syntheses of some organometallics

AU Aylmore, M. G.; Lincoln, F. J.; Cosgriff, J. E.; Deacon, G. B.; Gatehouse, B. M.; Sandoval, C. A.; Spiccia, L.

CS Dep. Chem., Univ. Western Australia, Nedlands, 6907, Australia

SO European Journal of Solid State and Inorganic Chemistry (1996), 33(2/3), 109-19

CODEN: EJSCE5; ISSN: 0992-4361

PB Gauthier-Villars

DT Journal

LA English

L12 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1992:574514 CAPLUS

DN 117:174514

TI Purification of inorganic, porous, nonlayered, crystalline materials, the products obtained, and hydrocarbon-conversion process in contact with these materials

IN Chu, Cynthia T. W.; Kresge, Charles T.

PA Mobil Oil Corp., USA

SO U.S., 15 pp. Cont.-in-part of U.S. Ser. No. 625,245.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5104515	A	19920414	US 1991-720107	19910624
	US 5102643	A	19920407	US 1990-470008	19900125
	US 5098684	A	19920324	US 1990-625245	19901210
PRAI	US 1990-470008	A2	19900125		
	US 1990-625245	A2	19901210		

L12 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1992:511120 CAPLUS

DN 117:111120

TI process for the preparation of catalyst supports from alkali metal carbonates and alcohols

IN Schubert, Paula F.; Kubicek, Donald H.

PA Phillips Petroleum Co., USA

SO U.S., 7 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5128298	A	19920707	US 1991-726428	19910705
PRAI	US 1991-726428		19910705		

L12 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1991:8550 CAPLUS

DN 114:8550
 TI Supported inorganic nitrate-containing olefin dimerization catalysts
 IN Drake, Charles A.
 PA Phillips Petroleum Co., USA
 SO U.S., 6 pp.
 CODEN: USXXAM

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4950632	A	19900821	US 1989-375563	19890705
	US 5105048	A	19920414	US 1990-511151	19900419
	CA 2017591	AA	19910105	CA 1990-2017591	19900525
	NO 9002989	A	19910107	NO 1990-2989	19900704
	EP 406867	A1	19910109	EP 1990-112865	19900705
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 03109403	A2	19910509	JP 1990-178471	19900705
PRAI	US 1989-375563		19890705		
OS	CASREACT 114:8550				

L12 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1989:499864 CAPLUS

DN 111:99864

TI Manufacture of free-flowing, noncaking **potassium carbonate** hydrate

IN Fuetterer, Helmut; Schuebl, Herbert; Fuetterer, Klaus Dieter

PA VEB Kombinat Kali, Ger. Dem. Rep.

SO Ger. (East), 7 pp.

CODEN: GEXXA8

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DD 264902	A1	19890215	DD 1987-308961	19871112
PRAI	DD 1987-308961		19871112		

L12 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1989:157152 CAPLUS

DN 110:157152

TI Manufacture of **anhydrous** magnesium carbonate

IN Bumbalek, Vaclav; Horak, Vaclav; Zurek, Frantisek; Prokleska, Frantisek

PA Ustav pro Vyzkum Rud, Czech.

SO Eur. Pat. Appl., 5 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 302514	A2	19890208	EP 1988-112791	19880805
	EP 302514	A3	19900509		
	R: AT, CH, DE, GB, LI				
	CS 265971	B1	19891114	CS 1987-5837	19870806
	HU 50454	A2	19900228	HU 1988-4089	19880804
	BR 8803890	A	19890221	BR 1988-3890	19880805
	SU 1704626	A3	19920107	SU 1988-4356277	19880805
	JP 01133919	A2	19890526	JP 1988-195325	19880806
PRAI	CS 1987-5837		19870806		

L12 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1988:476214 CAPLUS

DN 109:76214

TI Method for the manufacture of **anhydrous** and dust-free
calcined potash with adjustable narrow particle-size
distribution

IN Will, Klaus; Elberling, Gunter
PA VEB Kombinat Kali, Ger. Dem. Rep.
SO Ger. (East), 5 pp.

CODEN: GEXXA8

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DD 255328	A1	19880330	DD 1986-298138	19861222
PRAI	DD 1986-298138		19861222		

L12 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1981:124068 CAPLUS

DN 94:124068

TI Fibrous potassium titanate

PA Kyushu Refractories Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 55144417	A2	19801111	JP 1979-52851	19790428
PRAI	JP 1979-52851		19790428		

L12 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1980:149280 CAPLUS

DN 92:149280

TI Synthesis of potassium titanate "Fur-fibers" by the disk process

AU Shimizu, Tadao; Yanagida, Hiroaki; Hashimoto, Koshiro; Nishikawa, Yasuo

CS Dep. Ind. Chem., Chiba Inst. Technol., Narashino, 275, Japan

SO Yogyo Kyokaishi (1980), 88(2), 84-91

CODEN: YGKSA4; ISSN: 0372-7718

DT Journal

LA Japanese

L12 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1971:553453 CAPLUS

DN 75:153453

TI Crystalline condensed phosphates

PA Monsanto Co.

SO Brit. Amended, 8 pp.

CODEN: BSXXAH

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 1066233		19691105		
PRAI	US		19630319		
	US		19630814		

L12 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1971:409466 CAPLUS

DN 75:9466

TI Borosilicate glass composition

IN Thomas, George Lindsey

PA General Electric Co.

SO Ger. Offen., 11 pp.

CODEN: GWXXBX

DT Patent
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2044568		19710506		
PRAI	US		19690929		

L12 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1961:2860 CAPLUS

DN 55:2860

OREF 55:608b-e

TI Separation of primary substituted allyl halides from their mixture with isomeric compounds

IN Leets, K. V.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	SU 128860		19600601	SU	

L12 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1957:58706 CAPLUS

DN 51:58706

OREF 51:10865d-g

TI Nature of the clay constituents of the raw material of Swiss portland cement

AU Rustom, M.

CS Eidg. Tech. Hochschule, Zurich, Switz.

SO Schweiz. Arch. angew. Wiss. u. Tech. (1956), 22, 197-200

DT Journal

LA Unavailable

L12 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1943:8156 CAPLUS

DN 37:8156

OREF 37:1358b-d

TI Magnesium: Production and technology

AU Wilson, Philip D.

SO Mining and Met. (1943), 24, 70-1

DT Journal

LA Unavailable

L12 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1924:2243 CAPLUS

DN 18:2243

OREF 18:339a-b

TI Soaps

IN Welter, A.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 202710		19220520	GB	

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L12 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2003 ACS

AB In the title process, in which $K_2CO_3 \cdot 1.5H_2O$ is manufd. by evaporative and cooling crystn. of aq. K_2CO_3 solns. and sepd. from the mother liquor by

centrifugation, the wet hydrate is intimately mixed at 20-200.degree. with a 0.1-2.0% stoichiometric amt. of **calcined (anhyd.)** K_2CO_3 for 5 min, whereby the drying of the hydrate is accomplished by hydration of the **calcined** K_2CO_3 . This method produces free-flowing, noncaking $K_2CO_3 \cdot 1.5H_2O$ that is useful for the manuf. of K salts. Thus 1450 kg wet K_2CO_3 hydrate (contg. 237.5 kg water of hydration and 17.5 kg adhering water), obtained by centrifugation of 2 m³ suspension contg. 600 g K_2CO_3 /L, were intimately mixed with 90 kg **calcined** K_2CO_3 for 6-7 min to give a free-flowing noncaking product.